Information and Engineering Solutions

April 13, 2000

Rusty Netz Sunnyside Cogeneration Associates PO Box 10 East Carbon, UT 84520 (435) 888-4476

RE: First Quarter 2000 Inspections

Dear Rusty,

On March 21, 2000, Psomas completed the First Quarter Inspection of SCA's Impoundments, Refuse Pile, and Excess Spoil Disposal Areas. These areas appeared stable, with no structural weakness or hazardous conditions. In general, the site appeared in good condition and well maintained.

I have enclosed the certified inspection reports associated with each facility.

Please feel free to call me at (801) 270-5777 if you have any questions.

Sincerely,

S. Scott Carlson, P.E. Project Manager

Enclosure

APR 19 2000

APR 19 2000

OIL, DIVISION OF GAS AND MINING

File in:

Confidential
Shelf
Expandable

Refer to Record No OO O Date 4 In CISCO 70035 2000, Sulley

For additional information

Suite 120 Salt Lake City, UT 84121

2825 E. Cottonwood Parkway

801.270.5777 801.270.5782 Fax www.psomas.com



### **Sunnyside Cogeneration Associates**



P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

April 17, 2000

Daron Haddock STATE OF UTAH Division of Oil, Gas & Mining 1594 W. North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

First Quarter 2000 Inspection Report

Dear Mr. Haddock:

Please find enclosed a copy of the First Quarter 2000 Inspection Report for Sunnyside Cogeneration Associates' impoundments, refuse pile and excess spoil areas. The inspection was performed by a professional engineer from Psomas and Associates Engineering.

Should you have any questions, please contact Rusty Netz at (435)888-4476.

RECEIVED

APR 19 2000

**DIVISION OF** OIL, GAS AND MINING Sincerely,

Agent For

Sunnyside Cogeneration Associates

Randy J. Scott

Plant Manager

Enclosure

c.c. Bill Malencik/Division of Oil, Gas & Mining Rusty Netz, COSI Plant File

> C10070035, 2000, Jacoming Refer to:

Confidential

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700 or additional information

	ION AND CERTIFIED REPORT	Clear Water Pond			
Permit Number	ACT/007/035	Report Date 04/13/00			
Mine Name	SUNNYSIDE REFUSE AND SLURRY				
Company Name	SUNNYSIDE COGENERATION ASSOCIATES				
Impoundment Identification	Impoundment Name	Clear Water Pond			
	Impoundment Number	004			
	UPDES Permit Number	UT 024759			
	MSHA ID Number	N/A			
IMPOUNDMENT INSE	PECTION				
Inspection Date	03/21/00				
Inspected By	Scott Carlson				
	Lon ther Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000			
Required for an impoundment which functions as a SEDIMENTATION POND.	2. Sediment storage capacity, volumes, and, estimated ave	including elevation of 60% and 100% sediment storage erage elevation of existing sediment.			
impoundment which functions as a	2. Sediment storage capacity, volumes, and, estimated avoidable.  Storage Capacity = 4.9  Maximum Sediment Depth Existing Sediment Elev	erage elevation of existing sediment.  erage elevation of existing sediment.  erage elevation = 6527			

TMPOINDMENT INSPECTION AND CERTIFIED REPOR	
	т

Clear Water Pond

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good, no structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Pond was dry.

No structure or stability problems observed.

Reclamation of the Sunnyside Coal Property is currently underway. Among the facilities being reclaimed is the Slurry Ditch which connected to the SCA Properties. This ditch has been filled in near the SCA Property and is no longer a major storm water conveyance facility to the Slurry Ponds #1 and #2 or to the Clearwater Pond or to the East Slurry Cell. Watersheds which previously contributed to these ponds are no longer doing so.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed directly to either the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the stormflows without the Slurry Ponds in series.

#### Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date:

IMP	OUNDMENT INSPECTION AND CERTIFIED REPORT	Clear Water Pond					
CERTIFIED REPORT							
IMP	IMPOUNDMENT EVALUATION (If NO, explain under Comments)  YES NO						
1. Is impoundment designed and constructed in accordance with the approved plan?			yes				
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?			yes				
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?			yes				
COM	MENTS AND OTHER INFORMATION						

None

Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson Project Manager

(Full Name and Table)

IMPOUNDMENT INSPEC	TION AND CERTIFIED REPORT	Railcut Pond			
Permit Number	ACT/007/035	Report Date 04/13/00			
Mine Name	SUNNYSIDE REFUSE AND SLURRY				
Company Name	SUNNYSIDE COGENERATION AS	SOCIATES			
Impoundment Identification	Impoundment Name	Railcut Sediment Pond			
	Impoundment Number	007			
	UPDES Permit Number	UT 024759			
	MSHA ID Number	N/A			
IMPOUNDMENT INS	SPECTION				
Inspection Date	03/21/00				
Inspected By	Scott Carlson				
	tion Other Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000			
Required for an impoundment which	2. Sediment storage capacity,	including elevation of 60% and 100% sediment storage erage elevation of existing sediment.			
impoundment which functions as a SEDIMENTATION POND.  Storage Capacity = 4.8 acre-feet Maximum Sediment Depth Elevation = 6207.7 Estimated Existing Sediment Elevation = 6207+-					
	3. Principle and emergency sp  Spillway Elevation = Primary Drain Elevati	6212.34			
	1				

Railcut Pond

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

No discharge, inlet/outlet conditions are good, no structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes. Pond was dry. No structure or stability problems observed.

### Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date:

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	Railcut Pond					
CERTIFIED REPORT						
IMPOUNDMENT EVALUATION (If No, explain under Comments)  YES NO						
1. Is impoundment designed and constructed in accordance	yes					
2. Is impoundment free of instability, structural weakne condition?	ss, or any other hazardous	yes				
3. Has the impoundment met all applicable performance st limitations from the previous date of inspection?	yes					
COMMENTS AND OTHER INFORMATION						

None

# Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, P.E. Project Manager

Signature: Date: 04/13/00

IMPOUNDMENT INSPECT	ION AND CERTIFIED REPORT	OCRR Pond			
Permit Number	ACT/007/035	Report Date 04/13/00			
Mine Name	SUNNYSIDE REFUSE AND SLURRY				
Company Name	SUNNYSIDE COGENERATION ASSOCIATES				
Impoundment Identification	Impoundment Name	Old Coarse Refuse Road Sediment Pond			
	Impoundment Number	008			
	UPDES Permit Number	UT 024759			
	MSHA ID Number	N/A			
IMPOUNDMENT INSP	ECTION				
Inspection Date	03/21/00				
Inspected By	Scott Carlson				
	on her Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000			
Pomired for an	·				
Required for an impoundment which functions as a SEDIMENTATION POND	<ol> <li>Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and, estimated average elevation of existing sediment.</li> </ol>				
Storage Capacity = 0.9 acre-feet Maximum Sediment Depth Elevation = 6394.75 Estimated Existing Sediment Elevation = 6394+-					
	3. Principle and emergency spillway elevations.  Spillway Elevation = 6399.4 Primary Drain Elevation = 6395.75				

IMPOUNDMENT	INSPECTION	AND	CERTIFIED	REPORT

OCRR Pond

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

No discharge, pond was dry, inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes, no structure or stability problems observed.

#### Qualification Statement

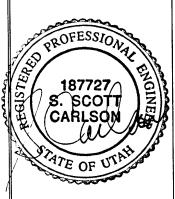
I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date:

	•	-	
IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	OCRR Pond		
CERTIFIED REPORT			
IMPOUNDMENT EVALUATION (If NO, explain under Comment	s)	YES	ио
1. Is impoundment designed and constructed in accordance	with the approved plan?	yes	
2. Is impoundment free of instability, structural weakne condition?	ss, or any other hazardous	yes	
3. Has the impoundment met all applicable performance st limitations from the previous date of inspection?	andards and effluent	yes	
COMMENTS AND OTHER INFORMATION			
none			

## Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By:	s.		carlson,			Manager			
Signa	ture	· /	Xett	ne	Son		Date:	04/13/00	

	ION AND CERTIFIED REPORT	Pasture Pond				
Permit Number	ACT/007/035	Report Date 04/13/00				
Mine Name	SUNNYSIDE REFUSE AND SLURRY					
Company Name	SUNNYSIDE COGENERATION ASSOCIATES					
Impoundment Identification	Impoundment Name	Pasture Sediment Pond				
	Impoundment Number	009				
	UPDES Permit Number	UT 024759				
	MSHA ID Number	N/A				
IMPOUNDMENT INSE	PECTION					
Inspection Date	03/21/00					
Inspected By	Scott Carlson					
Reason for Inspecti (Annual, Quarterly or O Critical Installation,	.on ther Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000				

Pasture Pond

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond was dry.

No discharge, inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes. No structure or stability problems observed.

#### Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date:

		Pasture Pond	POUNDMENT INSPECTION AND CERTIFIED REPORT			
CERTIFIED REPORT						
NO	IMPOUNDMENT EVALUATION (If NO, explain under Comments)  YES NO					
	yes	1. Is impoundment designed and constructed in accordance with the approved plan?				
	2. Is impoundment free of instability, structural weakness, or any other hazardous yes condition?					
	3. Has the impoundment met all applicable performance standards and effluent  Yes limitations from the previous date of inspection?					
	yes	ss, or any other hazardous	Is impoundment free of instability, structural weakne condition?  Has the impoundment met all applicable performance st			

#### MILMIS AND OTHER INFORMATION

none

## Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott/Tanlson - Project Manager

IMPOUNDMENT INSPECT:	ION AND CERTIFIED REPORT	CRT Pond			
Permit Number	ACT/007/035	Report Date 04/13/00			
Mine Name	SUNNYSIDE REFUSE AND SLURRY				
Company Name	SUNNYSIDE COGENERATION ASSOCIATES				
Impoundment Identification	Impoundment Name	New Coarse Refuse Toe Sediment Pond			
	Impoundment Number	012			
	UPDES Permit Number	UT 024759			
	MSHA ID Number	N/A			
IMPOUNDMENT INSP	ECTION				
Inspection Date	03/21/00				
Inspected By	Scott Carlson				
	On Cher Periodic Inspection, Or Completion of Construction)	First Quarter Inspection 2000			
Required for an impoundment which functions as a SEDIMENTATION POND					
	Storage Capacity = 1.6 acre-feet  Maximum Sediment Depth Elevation = 6177.0  Estimated Existing Sediment Elevation = 6176+-				
	3. Principle and emergency spi  Spillway Elevation = 6	3. Principle and emergency spillway elevations.  Spillway Floyation - 6183 63			
	Primary Drain Elevatio	on = 6178.2			

IMP	OUNDMENT INSPECTION AND CERTIFIED REPORT	CRT Pond	L
4.	<b>Field Information.</b> Provide current water elevate samples taken, monitoring/instrumentation information	ion, whether pond is dischargin, inlet/outlet conditions, or o	the

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond was dry.
No discharge, inlet/outlet conditions are good,
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes. No structure or stability problems observed.

### Qualification Statement

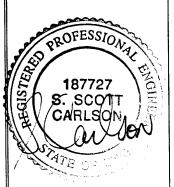
I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date:

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT CRT Pond							
CERTIFIED REPORT							
IMPOUNDMENT EVALUATION (If NO, explain under Comments)	YES	NO					
1. Is impoundment designed and constructed in accordance with the approved plan?	yes	2					
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?							
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?	yes	· · · · · · · · · · · · · · · · · · ·					
COMMENTS AND OTHER INFORMATION							

## Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By:	S	Scott/Carlson	_	Project	Manager
uy.	<b>.</b>	DCCCC/CCC/CCC		110,000	11011019-0-

Signature: Date: 04/13/00

IMPOUNDMENT INSPECT	ON AND CERTIFIED REPORT	COAL RUNOFF POND						
Permit Number	ACT/007/035	Report Date 04/13/00						
Mine Name	SUNNYSIDE REFUSE AND SLURF	RRY						
Company Name	SUNNYSIDE COGENERATION ASS	SSOCIATES						
Impoundment Identification	Impoundment Name	Coal Runoff Sediment Pond						
	Impoundment Number	014						
	UPDES Permit Number	UT 024759						
	MSHA ID Number	N/A						
IMPOUNDMENT INSP	ECTION							
Inspection Date	03/21/00							
Inspected By	Scott Carlson							
Reason for Inspecti (Annual, Quarterly or Ot Critical Installation, or	on ther Periodic Inspection, or Completion of Construction)	First Quarter Inspection	n 2000					
Required for an impoundment which functions as a SEDIMENTATION POND  Storage Capacity = 1.5 acre feet Maximum Sediment Depth Elevation = 6476.0 Estimated Existing Sediment Elevation = 6474±								
3. Principle and emergency spillway elevations.  Spillway Elevation = 6477.9  Emergency Spillway Elevation = 6479.0								

COAL RUNOFF POND

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond had very little water in it.
No discharge, inlet and outlet conditions are good.
No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes.

No structure or stability problems observed.

#### Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

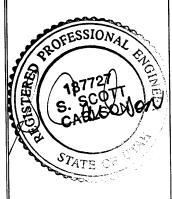
Signature:

Date:

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT	COAL RUNOFF POND						
CERTIFIED REPORT							
IMPOUNDMENT EVALUATION (If NO, explain under Comments)  YES NO							
1. Is impoundment designed and constructed in accordance	yes						
2. Is impoundment free of instability, structural weakness, or any other hazardous condition?							
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?  Yes							
COMMENTS AND OTHER INFORMATION							
COUMENTS AND OTHER INFORMATION							

None

## Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By:	s.	Scoz	<b>Za</b> rlson	<b></b>	Project	Manager			
	(Full I	Name and	Title)						
ei ar	ature	. X /	Vatt (	- 1	Sa X Sa	N.	Date:	04/13/00	

	ION AND CERTIFIED REPORT	Borrow Area Pond
Permit Number	ACT/007/035	Report Date 04/13/00
Mine Name	SUNNYSIDE REFUSE AND SLUR	RY
Company Name	SUNNYSIDE COGENERATION AS	SOCIATES
Impoundment Identification	Impoundment Name	Borrow Area Pond
	Impoundment Number	016
	UPDES Permit Number	UT 024759
	MSHA ID Number	N/A
IMPOUNDMENT INSP	ECTION	
Inspection Date	03/21/00	
Inspected By	Scott Carlson	
Reason for Inspecti (Annual, Quarterly or Ot Critical Installation, of	on ther Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity, volumes, and, estimated av	including elevation of 60% and 100% sediment storage rerage elevation of existing sediment.
impoundment which functions as a	volumes, and, estimated av  Storage Capacity = 8.  Maximum Sediment Dept	3 acre-feet

Borrow Area Pond

4. Field Information. Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond was dry.

No discharge, inlet/outlet conditions are good, No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

No changes.

No structure or stability problems observed.

### Qualification Statement

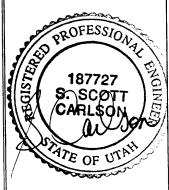
I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

cott au Sen Date: 04/13/00

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT Borrow Area Pond							
CERTIFIED REPORT							
IMPOUNDMENT EVALUATION (If NO, explain under Comments)  YES NO							
1. Is impoundment designed and constructed in accordance	yes						
2. Is impoundment free of instability, structural weakne condition?	yes						
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection?  Yes							
COMMENTS AND OTHER INFORMATION							

none

### Certification Statement:



I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By:	s.	Scott	Carlson,	P.E.	Project	Manager	

Signature: Date: 04/13/00

INSPECTION AND CERTIFIED ON EXCESS SPOIL PILE OR		Coarse Refuse Pile					
Permit Number	ACT/007/035	Report Date 04/13/00					
Mine Name	SUNNYSIDE REFUSE AND	ID SLURRY					
Company Name	SUNNYSIDE COGENERATI	ON ASSOCIATES					
Excess Pile Name: Spoil Pile or Refuse Pile Identification		Coarse Refuse Pile					
	Pile Number	N/A					
	MSHA ID Number	1211-UT-09-02093-01					
Inspection Date	03/21/00						
Inspected By	Scott Carlson						
Reason for Inspection (Annual, Quarterly or Other Periodic Inspection, Critical Installation, or Completion of Construction)		First Quarter Inspection 2000					
		Attachments to Report?   No X Yes					
Field Evaluation	1						
1. Foundation prepa	ration, including the removal o	of all organic material and topsoil.					
N/A							
2. Placement of und	derdrains and protective filter	systems.					
N/A							
3. Installation of	final surface drainage systems	•					
N/A	N/A						
4. Placement and c	ompaction of fill materials.						
N/A							
Removal of	Coarse and fine Refu	ase Material Only					

#### INSPECTION AND CERTIFIED REPORT ON EXCESS SPOIL PILE OR REFUSE PILE

Coarse Refuse Pile

Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions.

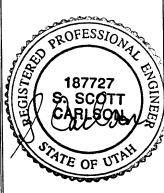
During the fourth quarter 1999, excavation of refuse material had damaged a small portion of the westerly access road around the refuse pile. This quarter's inspection showed that the operator had repaired the road and adjacent ditch and berm.

7. Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

Waste Coal Removal

No smokers visible

### Certification Statement



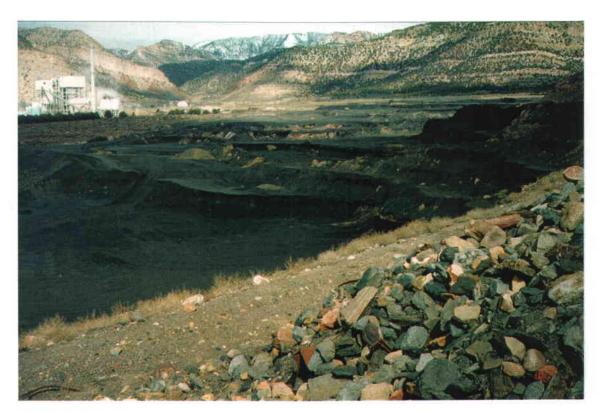
I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Project Manager

(Full Name and Titag)

Signature:

**Date:** 04/13/00



West Cell/Refuse Pile

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT		East Slurry Cell		
Permit Number	ACT/007/035	Report Date 04/13/00		
Mine Name	SUNNYSIDE REFUSE AND SLURF	RY		
Company Name	SUNNYSIDE COGENERATION ASS	SOCIATES		
Impoundment Identification	Impoundment Name	East Slurry Cell		
	Impoundment Number	N/A		
	UPDES Permit Number	N/A		
	MSHA ID Number	1211-UT-09-02093-02		
IMPOUNDMENT INSE	ECTION			
Inspection Date	03/21/00			
Inspected By	Scott Carlson			
Reason for Inspecti (Annual, Quarterly or Ot Critical Installation, or	on Cher Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000		
NONE  Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity, volumes, and, estimated ave	including elevation of 60% and 100% sediment storage crage elevation of existing sediment.		

East Slurry Cell

**4. Field Information.** Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.

Pond surface was dry. No structural or hazardous conditions exist.

5. Field Evaluation. Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.

Slurry Cell is not receiving slurry from any source, currently functioning as a sediment pond. No structural or stability problems observed. Reclamation of the Sunnyside Coal Property is currently underway. Among the facilities being reclaimed is the Slurry Ditch which connected to the SCA Properties. This ditch has been filled in near the SCA Property and is no longer a major storm water conveyance facility to the Slurry Ponds #1 and #2 or to the Clearwater Pond or to the East Slurry Cell. Watersheds which previously contributed to these ponds are no longer doing so.

In accordance with the approved plan to construct the Excess Spoil Disposal area #2, the Slurry Ponds #1 and #2 no longer receive storm runoff. These storm flows are now routed directly to either the East Slurry Cell or to the Clear Water Pond. With the reclamation activities at Sunnyside Coal, both of these ponds have ample capacity to handle the stormflows without the Slurry Ponds in series.

#### Qualification Statement

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

Signature:

Date: \_

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT East Slurry Cell						
CERTIFIED REPORT						
IMPOUNDMENT EVALUATION (If NO, explain under Comment	cs)	YES	NO			
1. Is impoundment designed and constructed in accordance	yes					
2. Is impoundment free of instability, structural weakned condition?	yes					
3. Has the impoundment met all applicable performance st limitations from the previous date of inspection?	yes					
COMMENTS AND OTHER INFORMATION						

none

### Certification Statement:



I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By:	s.	Scott	Carlson	_	Project	Manager

(Full Name and

Signature:

Date: 04/13/00

IMPOUNDMENT INSPECT:	ION AND CERTIFIED REPORT	West Cell
Permit Number	ACT/007/035	Report Date 04/13/00
Mine Name	SUNNYSIDE REFUSE AND SLUR	RY
Company Name	SUNNYSIDE COGENERATION AS	SOCIATES
Impoundment Identification	Impoundment Name	West Slurry Cell
	Impoundment Number	N/A
	UPDES Permit Number	N/A
	MSHA ID Number	1211-UT-09-02093-03
IMPOUNDMENT INSP	ECTION	
Inspection Date	03/21/00	
Inspected By	Scott Carlson	
	on her Periodic Inspection, r Completion of Construction)	First Quarter Inspection 2000
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity, volumes, and, estimated av	including elevation of 60% and 100% sediment storage erage elevation of existing sediment.
	Storage Capacity = N/A Maximum Sediment Depth Estimated Existing Sed	
	3. Principle and emergency sp	illway elevations.
	N/A	

IMP	OUNDMENT INSPECTI	ON AND CERTIFIED REPORT	West Cell	
4.	samples taken, monito	A. Provide current water elevatoring/instrumentation information with the pond including but not epairs, monitoring information, to	n, inlet/outlet conditions, or t limited to sediment cleanou	r other related t, pond decanting,
	Slurry Cell is Refuse Removal	Inactive		
5.	maximum depths and e	<ul> <li>Describe any changes in the levations of impounded water, es timated volume of water impounde ity or function which has occurr</li> </ul>	timated sediment or slurry vo d, and any other aspect of th	olume and remaining ne impounding structure
	Slurry Cell is r	not receiving slurry from a	any source	
	alification atement	I hereby certify that; I am exp qualified and authorized under to inspect the condition and ap certified and approved designs maintained in accordance with a requirements under all applicab inspections and inspection repo instability, structural weaknes affecting stability.	the direction of a Registered paramace of impoundments in a for this structure; that the approved design and meet or exple federal, state and local parts are made by myself and in	accordance with the impoundment has been acced the minimum design regulations; and, that notlude any appearances of
		Signature:	Carlow	Date: 04/13/00

IMPOUNDMENT INSPECTION A	AND CERTIFIED REPORT	West Cell		
CERTIFIED REPORT				
IMPOUNDMENT EVALUATION (	If NO, explain under Comment	s)	YES	NO
1. Is impoundment designed a	nd constructed in accordance	with the approved plan?	yes	
2. Is impoundment free of in condition?	stability, structural weakne	ss, or any other hazardous	yes	
3. Has the impoundment met a limitations from the prev	all applicable performance st ious date of inspection?	andards and effluent	yes	
COMMENTS AND OTHER INFO	RMATION			
none				
Statement:  qua and for app app ins	lified and authorized in the appearance of impoundments: this structure; that the improved design and meet or excellicable federal, state and pection reports are made by	erienced in the construction of State of Utah to inspect and in accordance with the certific poundment has been maintained seed the minimum design require local regulations; and, that in myself or under my direction a factural weakness or other hazam accordance with the Utah R64	ed and approv in accordance ments under a spections and nd include an rdous conditi	ed designs with ll y ons of the

By: S. Scott Carbson - Project Manager

(Full Name and Title)

187727 UT

Signature:

P.E. Number & State:

Date: 04/13/00

INSPECTION AND CERTIFIED ON EXCESS SPOIL PILE OR		Excess Spoil Pile #1
Permit Number	ACT/007/035	Report Date 04/13/00
Mine Name	SUNNYSIDE REFUSE AND	SLURRY
Company Name	SUNNYSIDE COGENERATI	ON ASSOCIATES
Excess Spoil Pile or Refuse Pile Identification	Pile Name:	Excess Spoil Disposal Area #1
	Pile Number	N/A
	MSHA ID Number	1211-UT-09-02093-04
Inspection Date	03/21/00	
Inspected By	Scott Carlson	
	ection ther Periodic Inspection, or Completion of Construction)	First Quarter Inspection 2000
		Attachments to Report?   No X Yes
Field Evaluation	1	
1. Foundation prepa	ration, including the removal o	of all organic material and topsoil.
2. Placement of und	erdrains and protective filter	systems.
N/A		
3. Installation of	final surface drainage systems	•
N/A		
4. Placement and co	ompaction of fill materials.	
Received a	pproximately 250 yrds	of spoils materials during this

	TION AND CERTIFIED REPORT ESS SPOIL PILE OR REFUSE PILE	Excess Spoil Pile #1
5.	Final grading and revegetation of fill.	
	N/A	
6.	Appearances of instability, structural weakness	, and other hazardous conditions.
	None	
7.	instrumentation, average and maximum lifts of m benches, total and remaining storage capacity of abatement of such fires, volumes of materials p aspect of the structure affecting its stability period.	ometry of the Excess Spoil/Refuse Pile structure, aterials placed in the pile, elevations of active f the structure, evidence of fires in the pile and laced in the structure during the year, and any other or function which has occurred during the reporting

Construction has been proceeding in shallow lifts in general conformance with the approved plan.

No evidence exists of fires in the pile.

Analytical results from samples taken of the material placed in this disposal area are submitted with this quarter's report.

Certification
Statement
PROFESSIONAL
187727
S. SCOTT
CARLSON
PROFESSIONAL
CONTROL
CARLSON
CARL

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson - Project Manager	
(Full Name and Title) Signature:	Date: 04/13/00



Excess Spoil Disposal Area # 1

SUNNYSIDE COGENERATION ASSOCIATES - SPOILS AREA SAMPLES - DECEMBER 1999

SUNNYSIDE COG	-NERALION AS	SSUCIALES - S	POILS AKEA	SUNNYSIDE COGENERATION ASSOCIATES - SPOILS AREA SAMIFLES - DECEMBEN 1939	- NIDER 1939
Sample Site	Spoil #1 E	Spoile #1 C	Spoils #1 W	Spoils #2 C North	Spoils #2 C South
Lab No.	72-00758-1	72-00759-1	72-00760-1	72-00761-1	72-00762-1
Depths					
Ho	7.36	6.91	7.24	6.97	7.0
EC (mmhos/cm @ 25 °C)	2.5	12.2	4.74	2.52	2.78
Saturation (%)	28.2	36.6	33.7	28.2	31.9
Calcium (meq/L)	12.0	21.2	24.2	11.2	16.3
Magnesium (meg/L)	12.4	273	40.6	13.4	14.5
Sodium (mea/L)	5.26	10.8	9.43	7.43	7.83
SAR	1.5	0.59	1.65	2.11	1.99
Sand (%)	82	82	80	78	80
Silt (%)	8	9	8	12	8
Clav (%)	10	12	12	10	12
Texture Class	Loamy Sand	Sandy Loam	Sandy Loam	Sandy Loam	Sandy Loam
Total Sulfur (%)	1.12	1.74	1.19	1.13	0.57
T.S. AP (t/1000t)	35.0	54.3	17.1	35.3	17.8
Neut. Pot. (t/1000t)	38.3	37.4	66.4	86.4	75.8
T.S. ABP (t/1000t)	53.30	-16.9	29.2	51.0	57.9
Nitrate- Nitrogen (ppm)	4.25	86.2	37.6	1.53	1.28
Boron (ppm)	1.66	10.2*	2.16	1.18	1.44
(mc	0.04	0.21	0.04	0.02	0.05
Total Organic Matter (%)					
Carbonates	8.83	3.7	6.64	8.64	7.58

Excess Spoil Area Samples

		Overhunden Evaluation for Vegetative Root Zone	or Vegetative Root Zon	O)	
			Sample Site		
Parameters	Spoils #1 F	Spoils #1 C	Spoils #1 W	Spoils #2 C North	Spoils #2 C South
-	2000	Good	Good	Good	Good
LIC LICE	0000	3000	poor	Fair	Fair
Ec mmhos/cm @ 25 °C	600d	FOOI	pooo		7 - 0
Caturation %	Good	Good	Cood	Good	G00d
Sattliation /u		7000	5000	Good	Good
Texture	Fair	C000	GOOD	2000	500
	poor	Good	Fair	Cood	Good
JAIK	2000		7000	Pood	Cond
Selenium	C00d	Unacceptable	C000	GOOD	2000
	pood	Unaccentable	Good	Good	Good
Boron	Guod	Old Doop II	-	700	Cood
Acid / Base Potential	Good	Unacceptable	G00d	G000	nans

Parameters	Good	Fair	Poor	Unacceptable
Hd	6.1 to 8.2	5.1 to 6.1 8.2 to 8.4	4.5 to 5.0 8.5 to 9.0	< 4.5 > 9.0
Ec mmhos/cm @ 25 °C	0 to 2	2 to 8	8 to 15	> 15
Saturation %	25% to 85%		< 25% > 80%	
Texture	sl, I, sil, scl, vfsl, fsl	c, sicl, sc, ls, lfs	sic, s, sc, c, cos, fs, vfs	g, vcos
SAR	0 to 4	5 to 10	10 to 12 fine texture 10 to 15 coarse texture	12 fine texture 15 coarse texture
Selenium	< 0.1 mg/Kg			> 0.1 mg/Kg
Вогон	< 5.0 mg/Kg			> 5.0 mg/Kg
Acid / Base Potential	> -5 tons CaCO <sub>3</sub> / 1,000 tons material			< -5 tons CaCO <sub>3</sub> / 1,000 tons material



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4665 PARIS STREET
SUIYE 8-200
DENVER, CO 80239
TEL: (303) 373-4772
F/X: (303) 373-4791

March \$, 2000

SUNNYSIDE OPERATIONS P.O. BOX 159 #1 POWER PLANT ROAD SUNNYSIDE UT 84539

Sample identification by SUNNYSIDE COGENERATION FAC

SAMPLE ID: SPOILS #1 E

Kind of mample

Sample taken by SUNNYSIDE COGENERATION FAC

Date received December 28, 1999

> Analysis report no. 72-00758-1

PARAMETER	WETHOD	RESULTS	פתותם
Sclids	CLPSOW390, PART-F,D-98	99.70	ş
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	5.73	meq/188g
Exchangeable Sc Percent (ESP)	dium USDA No. 60 (10B) (calc)	0.96	સંભ
Nitrogen, total Kjeldahl	M3512-TKN by Elock Digester	0.23	95
Total Organic Carbon	EPA 3.2.14	98.8	d)p

!	\
Post-it* Fax Note 7871	Cata 7-0 pagas
"KUSTU Netzi	From Laure
СолДарі.	8. MAF DIMUS
Phone #	thone d
Fax #	Fax 1

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Canver Laboratory



MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND HIVER LOADING FACILITIES



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FAX: (303) 373-4781

30-

March 8, 2000

SUMNYSIDE COGENERATION SOIL

: SPDIES 41 RASTorthing :

Location

Surface Rieration :

AB-DIFA

Emating :

Hatter & Carbonates 8.90 Fragment. 98. A 0.04 EP: 0.07 1

72-00758-1

Xo.

Depth.

Organic Total

Coarss

Salanium

Seleniim

Rothe

COMMERCIAL

Method Ref.: Myraning D.S.Q., Land Quality Division Guideline No. 1, Topsoil And Overburden Rules Update/8-94

Spoil Material, University of Myoning, Collage of Agricultura, Bullatin M7-82, March 1994. Standard Operating Procedures For The Sampling And Analysis Of Selentum In Soil And Overburden/

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Denver Leboratory



F-467 Original Watermarked For Your Protection OVER 40 BRANCH LABORATORIES STEATEGICALLY LOCATED IN PRINCIPAL COAL F

ANEAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

TEHMS AND CONDITIONS ON REVERSE



March B. 200

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GENERAL DIFFICES: 1919 SOUTH HUGHLAND AVE., SUITE 210-B, LOMBAND, ILLINOIS 60148 • TEL: 708-853-8300 FAX: 708-853-8306

🏓 🔙 \_\_Member of the SNS Ground Société Comérale de Surveillance)

PLEASE ADDRESS ALL CURRESPONDENCE TO: 4665 PARIS, B 210, DENVER, CD 810239
TEL: (903) 373 4772
FAX: (903) 373 4701

SURNYSADE COGENERATION -

1 SPOILS #1 RASForthing :

Surface Blavation : Location Ranting :

Sulfar Total t/1000t 4.5. Z E/1000E Pot. Haut. 1/10001 THP. T.S. Sulfag Fyx 10xq t/1000t Fyx+Drg λÞ t/1000t Fyr+Drg AHR. Botes

72-00758-1

1.12

35.0

98.3

53.3

Depth.

Carrien \* Drganic Total

Method Ref.: Nyrming D.E.Q., Lend Duality Division Guideline No. 1, Topsoil And Drankurden Endan Prints-8-94

Spoil Material, University Of Myroming, College Of Agriculture, Pulletin MY-83, March 1994. Standard Operating Procedures For The Sampling And Analysis of Salenium In Soil And Oregounden/

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LIDADING FACILITIES Denver Laborator

F-457 Original Watermarked For Your Protection DVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL DOAL A

TERMS AND COMMITTEES DIT REVENSE



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# COMMERCIAL TESTING & ENGINEERING CO.

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- 4665 PARIS, B 21%, DERVER, CO \$10239
TEL: (\$100) 373 4772
FAX: (\$100) 373 4781

3:)-

SUNNYSIDE COGENERATION TIOS

Surface Blevation : : SEDILS #1 EASIbribing : Ranting :

Location

Til Lange Bitrate Boron nd. Molybdenum Selezion PP Salendard VAIRG-BV Line

Notes.

D. 01 0.07

FFT-LSEL THICKENWCO

4.25

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72-0075B-1

Depthe

Armenic Y.

F

Method Ref.: Myoming D.E.G., Land Quality Division Guideline No. 1, Topsoil And Overhorden Eales Update/8-94

Spoil Katerial, University Of Nyoming, College Of Agriculture, Bulletin RP-82, March 1994. Standard Operating Procedures For The Sampling And Analysis of Selenium In Soil And Overburden/

Denver Laboratory

Respectfully submitted

COMMERCIAL TESTING & ENGINEERING CO.

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F-467 Original Watermarked For Your Protection OVER 40 BRANCH L'ABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL F

AMEAS, HIDEWALEH AND GHEAT LAKES POHIS, AND RIVER LOADING FACILITIES

TERMS AND COMPIGNES ON REVERSE



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ARRS PARIS, R 200, DENVER, CO R0239
TEL: (303) 373 4772
FAX: (304) 377 4781

Karch 8, 2000

NOTE WHERE BEEN BOARDANNES

Surface Rievation : : SPOILS #1 EASTorthing : Frating :

Location

72-00758-1 5 Depths H mabos/cm 8 25°C 2.50 0100 mtion Calcium Satur .. 12.0 mq/1Magnesinn ¥.49/1 12.4 Spdium 23eq/1 5.26 1.50 7 Sand Silt **H**2 Ferticle Size Clay H 10 TOWK BYND Texture CLARE

Hotes

COMMERCO

Noticed Ref.: Myrming D.E.D., Land Quality Division Guideline Ro. 1, Topsoil And Overhunden Bules Update/8-94

Spoil Material, University of Hymming, College of Agriculture, Bulletin MF-82, Harch 1994. Standard Operating Procedures For The Sorpling And Analysis Of Selenium In Soil And Overburdens

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO. ) Jane

Denver Laborator



F-457 Original Walermarked For Your Protection OVER 40 BRANCH LABORATORIES STRATEGROALLY LOCATED IN PRINCIPAL COAL! I AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

TERMS AND CHROMODIS ON REVERSE



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March 6, 2000

SUNNYSIDE OPERATIONS P.O. BOX 159 #1 POWER PLANT ROAD SUNNYSIDE UT 84539

Sample identification by SUNNYSIDE COGENERATION FAC

SAMPLE ID: SPOILS #1 C

Kind of sample SOIL

Sample taken by SUNNYSIDE COGENERATION FAC

Date received December 28, 1999

Analysis raport no. 72-00759-1

PARA	ETER	<u> AORTEK</u>	RESULTS	UNITS
Soli	a	CLPSOW390, PART-F,D-98	97.96	걐
	on Exchange acity (CEC)	USDA No. 60 (19)	8.75	meg/100g
	angeable Sodii ent (ESP)	um USDA No. 60 (10B)(calc)	0.07	d p
	gen, total dahl	M3512-TKN by Block Digester	0.18	3P
Tota: Carl		EPA 3.2.14	93.3	₹ *

Respectfully supmitted, COMMERCIAL TESTING & ENGINEERING CO.

Danver Laporatory



CYER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES FORTS, AND RIVER LOADING FACILITIES

72-00759-1

6.91

12.2+

36.6

21.2

273.

10.0

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neshos/cm 9 251C

> ation Satur-

Calcium

T/Perm

meq/1

L/Esm

37 B

SINCE 1908\*

March 8, 2000

Member of the SGS Group (Société Générate de Surveillence)

PLEASE ADDRESS ALL CORRESPONDENCE TO: 4865 PARIS, B 210, DENVER, CO 80239

TEL: (303) 373 4777 FAX: (303) 373 4791

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COMMERCIAL TESTING & ENGINEERING CO.

SUNNYSIDE COGENERATION

Location

: SECTION #1 CEDUTER

Surface Blevation :

Runting : Horthing:

Magnesium Sodium Sand Silt Clay

Particle Size

Taxture 

Motes

MAN TOWN

7

Method Ref.: Myrming D.K.G., Land Quality Division Guideline Mo. 1, Topsoil And Overhurden Rules Update/8-94

Spoil Material, University Of Nyoming, College Of Agriculture, Bulletin Mr-81, March 1994. Standard Operating Procedures For the Sampling And Analysis Of Salentin to Soil And Overburden/

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Deriver Laboratory

F-467 Original Watermarked For Your Protection OVEH 40 BRANCH LABORATORIES BITRATECICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

TEHNS AND

JUNE ON REVERSE

Lab Eo.

Daptha

Matter 3 Organic Total

Carbonates

Fragments Coarse

3.7€

93.3

0.21

0.41

72-00759-1

SINCE 19081

March 8, 2000

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SUNNYSIDE COGENERATION

PLEASE ADDRESS ALL COMMESPONDENCE 10
4665 PARIS, B 200, DENVER, CO 8/229
1EL: (303) 373-4771
FAX: (203) 373-4791

: SECTION HI CENTER BOTCHING :

Surface Blevation : Ranking :

Vald-BV

S-l-utun and d Salenium

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Noten

Method Ref.: Nycming D.S.G., Land Quality Division Guldeline No. 1, Topsoil And Gverburden Eules Update/8-94

Spoil Material, University of Nyoming, College of Agriculture, Bulletin NP-92, March 1994. Standard Operating Procedures For the Sampling And Analysis Of Selenium to Soil And Overburden/

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Denver Laboratory

F-467 Original Watermarked For Your Protection OVEH 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAXES PORTS, AND RIVER LOADING FACILITIES

IN SME

JITIONS ON REVERSE

72-00759-1

1.74

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Lab Bo.

Depths

Carbon & Organic Total

t/1000t

e/1000t

₽at. Mout.

Sulfur Total

H.5 3

Narch 8, 2000

Meather of the SGS Group (Société Générale da Surveillence)

PLEASE AJURESS ALL CORRESPONDENCE TO: 4605 PARIS, B 200, DERVER, CO R0233 IEL: (303) 373 4777 FAX: (303) 773 4781

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SUMNYSIDE COGENERATION

1 SIXXLES \$1 CHAIRE Marthing :

Surface Blevation :

Bamting :

t/iddat AEV. T.S. Saltur Fyz . Crg Fyr+0rg t/1000t ĀΡ t/1000t Fyz+0xg ARP

Motes

-16.90.80 LA.7 18.6

Method Ref.: Myoming D.K.G., Land Quality Division Guideline No. 1, Ropenil And Orenbuction Rules Update/8-94

Spoil Material, University of Myoming, College of Agriculture, Bulletin MP-82, Warch 1994. Standard Operating Procedures For the Sampling And Analysis of Selenium In Soil And Overburden/

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F487
Original Wedermarked For Your Protection OVEN 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MURING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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TIONS ON PIEVERSE

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Depths

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> Hitrogen Mitrato

Match 6, 2000

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Mamber of the SGS Group (Société Générale de Surveillance)

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-8, LOMBAND, HLINOIS 60148 • TEL: 708 BE3 6300 FAX: 708 BE3-8006 COMMERCIAL TESTING & ENGINEERING CO.

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TEL: (303) 373-4779
FAX: (303) 373-47791

SUNNYSIDE COGENERATION SOIL

: SFOILS #1 CENTER

Ramting : Northing :

Surface Blavation :

10.24	म्योव व	Яогоц
	फ्ते दे	Molybdenum
0.21	PFrm	Solebius
0.31	प्रमुख	AB-DIFA selectum

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Method Ref.: Wycming D.K.G., Land Quality Division Guidaline No. 1, Topsoil And Grazburden Rales Update/8-94

Standard Operating Procedures for The Sampling And Analysis Of Selenium in Soil And Overburden/

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Denver Laborator

F-467 Original Watermarked For Your Protection <u>OVER 40 BRANCH LABORATURIES STRATE</u>S[CALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

THAS ALID

TORS ON REVERSE



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CENERAL OFFICES: 1818 SOUTH HIGHLAND AVE., GUITE \$10-8, LOMBARD, ILLINOIS 80148 . TEL: 630-863-8300, FAX: 630-863-8300

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SUITE 8-200 DENVER, CO 80239 TEL: (303) 373-4772 FAX: (303) 373-4791 SUITE 8-200

Sample identification by SUNNYSIDE COGENERATION FAC

SAMPLE ID: SPOILS #1 W

Kind of sample SOIL

SUNNYSIDE OPERATIONS

#1 POWER PLANT ROAD

SUNNYSIDE UT 84539

March 8, 2000

P.O. BOX 159

Sample taken by SUNNYSIDE COGENERATION FAC

bate received December 28, 1999

> Analysis report np. 72-00760-1

PARAMETER	METHOD	RESULTS	UNITS
Solida	CLPSOW390, PART-F,D-98	99.08	ž
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	8.58	meq/100g
Exchangeable Sod Percent (ESP)	ium USDA No. 60 (10B)(calc)	1.17	કે
Nitrogen, Eotal Kjeldahl	M3512-TKN by Block Digester	0.22	<b>1</b>
Total Organic Carton	EPA 3.2.14	96.6	<b>એ</b>

Respectfully automitted, COMMERCIAL TESTING & ENGINEERING CO.

Common Juan Minimu Ariems, Cornator and Great Lakes Ports, and River Loading Facilities

OVER 40 BRANCH LABORATOR ES STRATEGICALLY CODATES .

-465 Original Watermarked For Your Protection

TERMS AND CONDITIONS ON REVERSE

Spoil Material, University Of Myoging

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72-00760-L

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9.43

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**B** 0

March 8, 2000

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PLEASE ADDIRESS AI L CONRESPONDENCE 10: 4605 PARIS, N 200, DENVEN, CO 90239 TEL: (303) 373 4791 FAX: (313) 373 4791

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE, SUITEZIO-8, LUMBATO, ILLINOIS 60148 • TEL: 708-863-8300 FAX: 708-863-8308 COMMERCIAL TESTING & ENGINEERING CO.

SUNNYSIDE COGENERATION

: SPOILS %1 WESTOTELing :

Surface Klevation :

Kanting :

Sedium Particle Size

**8**V6 Sand Silt Clay

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Tertura CIARR

Notes

12

Pespecifully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Kethod Haf.: Myrming D.E.G., Land Guality Division Guldeline No. 1, Topsoil And Overburden Rules Opdate/8-94

Standard Operating Procedures For The Sampling And Analysis Of Selenium In Soil And Overhordan/

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Denver Laborator

Griginal Watermarked For Your Protection OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING ABEAS, TIDEWATER AND APEA HIGHS ON REVERSE PORTS, AND RIVER LOADING FACILITIES

Lab No.

Depths

Matter & organic Total

Carbonates

Fragments

72-00760-L

March 8, 2000

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4695 PATIES, IT 200, DEFINER, CO 90219
1EL: (303) 373-4772
FAX: (303) 373-4791

SUNNYSIDE COGENERATION

: SECILS #L WBSTorthing :

Ranting :

Surface Blevahion :

COREN

Selenium Selanium V3 KA-BV

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Method Eaf.: Myoning D.E.Q., Land Quality Division Guideline Mo. 1, Topsoil And Overhunden Bules Update/8-94

Spoil Material, University Of Myoming, College Of Agriculture, Bulletin MP-82, March 1994. Standard Operating Procedures For the Sampling And Analysis Of Selenium in Soil And Overburden/

Respondfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Deriver Laboratory



F-467 Original Watermarked For Your Protection OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREATLAKER PORTS, AND CHARACHAR AND GREATLAKER PORTS.

TETIMS AND

HONS ON REVENSE

Lab No.

Carbon & Organic Total

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t/1000E . Ag

Sulfur Total

72-00760-1

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SINCE 1908

March 8, 2000

Momber of the SGS Group (Société Générale de Surveillance)

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TEL: (303) 373-4772

FAX: (303) 373 4731

SUMNYSIDE COGENERATION

Location

t SECILS #1 NECTOITHING :

T.S. Surface Blevation

Ranting :

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4/1000F Pat. t/1000E ARP.

Fyr+0rg

Fyzeorg B

F/IGGGF

Pyz+Org

t/1000t Hotas

Wethod Ref.: Nyuming D.E.G., Land Quality Division Guideline No. 1, Topsoil And Overburden Rules Update/8-94

Standard Operating Procedures For The Sampling And Analysis Of Selection In Soil And Overborden

noil Material, University, Of Mycming, College Of Agriculture, Bullatin MP-82, Hares 1934;

Deliver Laboratory

Heapectrolly submitted; COMMERCIAL TESTING & ENGINEERING CO.



Criginal Watermarked For Your Protection OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAST TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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Lab Bo.

Armanic

Nitrogen Mitrate-

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72-00760-L

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March 8, 2000

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GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE ZIOB, LOMRAFID, ILLINOIS 60148 • TEL: 705 953-6000 FAX: 705-953-6000 COMMERCIAL TESTING & ENGINEERING CO.

PLEASE ADDRESS ALL CORPESPONDENCE TO. 4665 PARIIS, B 210, DERIVER, CO 19239 TEL (303) 37: 4771

SUNNYSIDE COGENERATION

Surface Blevation: : Stolle #t hasterbling :

Ranting :

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Notes

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Mathod Ref.: Myoming D.E.Q., Land Quality Division Guideline No. 1, Topsoil And Overhurden Sules Opdate/8-94

Standard Operating Procedures For The Sumpling And Analysis of Selenium In Soil And Overburden/ 

Deriver Laboratory

COMMERCIAL TESTING & ENGINEERING CO.



F-467 Original Wedermarked For Your Protection OVEN 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MIRING AREAS, TIDENATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

INV STATELL

HIONS ON REVERSE

INSPECTION AND CERTIFIED ON EXCESS SPOIL PILE OR		Excess Spoil Pile #2
Permit Number	ACT/007/035	Report Date 04/13/00
Mine Name	SUNNYSIDE REFUSE AND	SLURRY
Company Name	SUNNYSIDE COGENERATI	ON ASSOCIATES
Excess Spoil Pile or Refuse Pile Identification	Pile Name:	Excess Spoil Disposal Area #2
	Pile Number	N/A
	MSHA ID Number	1211-UT-09-02093-05
Inspection Date	03/21/00	
Inspected By	Scott Carlson	
	<b>ction</b> her Periodic Inspection, r Completion of Construction)	First Quarter Inspection 2000
		Attachments to Report? No X Yes
Field Evaluation		

Foundation preparation, including the removal of all organic material and topsoil.

Existing disturbed site. No topsoil removal is required by approved plan. SCA is currently in the process of removing accumulated coal fines from the Slurry Pond #2 area for use as fuel.

2. Placement of underdrains and protective filter systems.

> Underdrains and filters are not required by approved plan. The Slurry Ponds #1 and #2 no longer receive inflows of any storm waters. The inlet culverts have been removed and stormwater rerouted to other impoundments.

Installation of final surface drainage systems.

N/A

4. Placement and compaction of fill materials.

> Placement and compaction of fill material continues in this disposal area. Material consists generally of coarse refuse rejects and is being placed in general conformance with the approved plan. Approximately 7,500 yards of material was placed during the Quarter.

INS	PECTION	AND	CERTIF	IED	REPORT	٠,
ON	EXCESS	SPOTE	. PTT.E	OR I	अशाक्रम	DTT.P

Excess Spoil Pile #2

5. Final grading and revegetation of fill.

N/A

Appearances of instability, structural weakness, and other hazardous conditions.

None

Other Comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period.

Both Slurry Pond #1 and Slurry Pond #2 have been approved to be filled with coal mine waste and excess spoil in connection with construction of the Excess Spoil Disposal Area # 2.

The Clearwater Pond is also part of this disposal area but will continue to function as a sediment pond until such time as it is needed as a disposal site.

Analytical results from samples taken of the material placed in this disposal area are submitted with this quarter's report.

### Certification Statement



I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlaon - Project Manage	By:	s.	Scott	Carlaon	_	Project	Manage
---------------------------------------	-----	----	-------	---------	---	---------	--------

(Full Name and

Signature:

Date: 04/13/00

**P.E. Number & State:** 187727 - UT



Excess Spoil Disposal Area # 2



Excess Spoil Disposal Area # 2



Excess Spoil Disposal Area # 2 (Slurry Pond 2 Area)

SUNNYSIDE COGENERATION ASSOCIATES - SPOILS AREA SAMPLES - DECEMBER 1999

Lab No.         72-00758-1         72-00759-1           Lab No.         72-00758-1         72-00759-1           Depths         7.36         6.91           PH         7.36         6.91           EC (mmhos/cm @ 25 °C)         2.5         12.2           Saturation (%)         28.2         36.6           Calcium (meq/L)         12.0         21.2           Magnesium (meq/L)         12.4         27.3           Sodium (meq/L)         12.4         27.3           SAR         82         82           Sand (%)         8         6           Silt (%)         10         12           Texture Class         Loamy Sand Sandy Loam         3           Total Sulfur (%)         1.12         1.74           T.S. AP (t/1000t)         38.3         37.4           T.S. ABP (t/1000t)         38.3         37.4           T.S. ABP (t/1000t)         4.25         86.2           Nitrate- Nitrogen (ppm)         1.66         10.2*	12:1	6.97 6.97 2.52 28.2 11.2 13.4 7.43 7.43	72-00762-1 7.0 2.78 31.9 16.3 14.5 7.83
hs		6.97 2.52 28.2 11.2 13.4 7.43 7.8	7.0 7.0 2.78 31.9 16.3 7.83 7.83
hs 7.36 6.91  mmhos/cm @ 25 °C) 2.5 12.2  ration (%) 28.2 36.6  um (meq/L) 12.0 21.2  mesium (meq/L) 12.4 273  um (meq/L) 5.26 10.8  look) 82 82  %) 82 66  %) 1.15 0.59  Rolling (%) 10 12  re Class Loamy Sand Sandy Loam 1.12  Sulfur (%) 1.12 1.74  AP (t/1000t) 38.3 37.4  ABP (t/1000t) 53.30 -16.9  to (ppm) 1.66 10.2*		6.97 2.52 28.2 11.2 13.4 7.43 7.8	7.0 2.78 31.9 16.3 7.83 7.83
mmhos/cm @ 25 °C)       7.36       6.91         mmhos/cm @ 25 °C)       2.5       12.2         ration (%)       28.2       36.6         um (meq/L)       12.0       21.2         nesium (meq/L)       12.4       27.3         nm (meq/L)       12.4       27.3         nm (meq/L)       1.5       0.59         l (%)       8       6         %)       8       6         %)       8       6         (%)       1.0       12         are Class       Loamy Sand       Sandy Loam         Sulfur (%)       1.12       1.74         APP (t/1000t)       35.0       54.3         APP (t/1000t)       38.3       37.4         ABP (t/1000t)       53.30       -16.9         te- Nitrogen (ppm)       1.66       10.2*         n (ppm)       1.66       10.2*		6.97 2.52 28.2 11.2 13.4 7.43 7.8	7.0 2.78 31.9 16.3 7.83 7.83
ration (%) 28.2 36.6  ration (%) 28.2 36.6  um (meq/L) 12.0 21.2  nesium (meq/L) 12.4 27.3  um (meq/L) 5.26 10.8  l (%) 82 82  %) 8 6  %) 8 6  (%) 1.15 0.59  l (%) 82 82  l (%) 1.15 0.59  R 6  %) 82 82  l (%) 1.15 1.74  Sulfur (%) 1.12 1.74  AP (t/1000t) 38.3 37.4  te- Nitrogen (ppm) 4.25 86.2  n (ppm) 1.66 10.2*		2.52 28.2 11.2 13.4 7.43 2.11	2.78 31.9 16.3 7.83 7.83
ration (%) 28.2 36.6  um (meq/L) 12.0 21.2  nesium (meq/L) 12.4 273  lum (meq/L) 5.26 10.8  lum (meq/L) 6.26 10.8  lum (meq/L) 1.5 0.59  lum (meq/L) 82 82  lum (meq/L) 1.5 1.74  lum (lum (lum (lum meq/L) 1.12 1.14  lum (lum meq/L) 1.12 1.14  lum (lum meq/L) 1.14  lum (lum meq/L) 1.15  lum (lum mem/L) 1.15  lum (lum meq/L) 1.15  lum (lum mem/L) 1.15  lum (lum mem		28.2 11.2 13.4 7.43 2.11	31.9 16.3 7.83 1.99
um (meq/L)       12.0       21.2         nesium (meq/L)       12.4       27.3         um (meq/L)       5.26       10.8         um (meq/L)       5.26       10.8         l (%)       82       82       82         %)       8       6       6         %)       10       12       12         xol       10       12       12         xol       1.12       1.74       1.74         APP (t/1000t)       35.0       54.3       1.74         APP (t/1000t)       38.3       37.4       16.9         te- Nitrogen (ppm)       4.25       86.2         n (ppm)       1.66       10.2*		11.2 13.4 7.43 2.11 7.8	16.3 14.5 7.83 1.99
nesium (meq/L)       12.4       273         Jum (meq/L)       5.26       10.8         I (%)       82       82         No       8       6         No       10       12         No       10       12         Ince Class       Loamy Sand       Sandy Loam         Ince Class       1.12       1.74         AP (t/1000t)       35.0       54.3         AP (t/1000t)       38.3       37.4         ABP (t/1000t)       53.30       -16.9         te- Nitrogen (ppm)       4.25       86.2         n (ppm)       1.66       10.2*		13.4 7.43 2.11 7.8	7.83 1.99
Im (meq/L)     5.26     10.8       1(%)     82     82       %)     8     6       %)     10     12       In Class     Loamy Sand Sandy Loam Saufur (%)     1.12     1.74       AP (t/1000t)     35.0     54.3       ABP (t/1000t)     38.3     37.4       ABP (t/1000t)     53.30     -16.9       te- Nitrogen (ppm)     1.66     10.2*		7.43 2.11 78	7.83
(%)     82     82       %)     8     6       %)     8     6       %)     10     12       Intermed Sandy Loam     1.12     1.74       Sulfur (%)     1.12     1.74       AP (t/1000t)     35.0     54.3       Pot. (t/1000t)     38.3     37.4       ABP (t/1000t)     53.30     -16.9       te- Nitrogen (ppm)     4.25     86.2       n (ppm)     1.66     10.2*		2.11	1.99
%)         82         82           %)         8         6           %)         10         12           Incellass         Loamy Sand         Sandy Loam           Sulfur (%)         1.12         1.74           AP (t/1000t)         35.0         54.3           AP (t/1000t)         38.3         37.4           ABP (t/1000t)         53.30         -16.9           te- Nitrogen (ppm)         4.25         86.2           n (ppm)         1.66         10.2*	0.59   1.65	78	
8 6 10 12 Class Loamy Sand Sandy Loam 1.12 1.74 Ulfur (%) 1.12 1.74 of (t/1000t) 35.0 54.3 oct. (t/1000t) 38.3 37.4 SP (t/1000t) 53.30 -16.9 Nitrogen (ppm) 4.25 86.2	82 80		80
b) 10 12  Class Loamy Sand Sandy Loam ulfur (%) 1.12 1.74  of (t/1000t) 35.0 54.3  out. (t/1000t) 38.3 37.4  SP (t/1000t) 53.30 -16.9  Nitrogen (ppm) 4.25 86.2  opm) 1.66 10.2*	6 8	12	8
Class         Loamy Sand         Sandy Loam           flur (%)         1.12         1.74           f(t/1000t)         35.0         54.3           t. (t/1000t)         38.3         37.4           v(t/1000t)         53.30         -16.9           Vitrogen (ppm)         4.25         86.2           pm)         1.66         10.2*	12 12	10	12
1.12 35.0 38.3 53.30 1.66	dy Loam Sandy Loam	Sandy Loam	Sandy Loam
35.0 38.3 53.30 1.66	1.74 1.19	1.13	0.57
38.3 53.30 7 4.25 1.66	54.3 17.1	35.3	17.8
53.30 4.25 1.66	37.4 66.4	86.4	75.8
4.25	-16.9 29.2	51.0	57.9
1.66		1.53	1.28
	10.2* 2.16	1.18	1.44
Selenium (ppm) 0.04 0.21	0.21 0.04	0.02	0.05
Total Organic Matter (%)			
Carbonates 8.83 3.7	3.7 6.64	8.64	7.58

Excess Spoil Area Samples

	)	Overburden Evaluation for Vegetative Root Zone	or Vegetative Root Zon	0	
			Sample Site		
Parameters	Spoils #1 E	Spoils #1 C	Spoils #1 W	Spoils #2 C North	Spoils #2 C South
Ha	Good	Good	Good	Good	Good
Ec mmhos/cm @ 25 °C	Good	Poor	Good	Fair	Fair
Saturation %	Good	Good	Good	Good	Good
Texture	Fair	Good	Good	Good	Good
SAR	Good	Good	Fair	Good	Good
Selection	Good	Unacceptable	Good	Good	Good
Boron	Good	Unacceptable	Good	Good	000 Cood
Acid / Base Potential	Good	Unacceptable	Good	Good	Good
		The second secon			

Parameters	Good	Fair	Poor	Unacceptable
Н	6.1 to 8.2	5.1 to 6.1 8.2 to 8.4	4.5 to 5.0 8.5 to 9.0	< 4.5 > 9.0
Ec minhos/cm @ 25 °C	0 to 2	2 to 8	8 to 15	> 15
Saturation %	25% to 85%		< 25% > 80%	
Texture	sl, I, sil, scl, vfsl, fsl	c, sicl, sc, ls, lfs	sic, s, sc, c, cos, fs, vfs	g, vcos
SAR	0 to 4	5 to 10	10 to 15 fine texture	12 fine texture 15 coarse texture
Selenium	< 0.1 mg/Kg			> 0.1 mg/Kg
Boron	< 5.0 mg/Kg			> 5.0 mg/Kg
Acid / Base Potential	> -5 tons CaCO <sub>3</sub> / 1,000 tons material			<ul><li>-5 tons CaCO<sub>3</sub> /</li><li>1,000 tons material</li></ul>

March 8, 2000

P.Q. BOX 159



### COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-8, LCMBARD, ILLINOIG Q0148 • TEL: 630-953-9300 FAX: 838-953-9306

SINCE 19080

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Sample identification by SUNNYSIDE COGENERATION FAC

SAMPLE ID: SPOIL PILE #2 CENTER NORTH

Kind of sample SOIL

SUNNYSIDE OPERATIONS

#1 POWER PLANT ROAD

SUNNYSIDE UT 84539

Sample taken by SUNNYSIDE COGENERATION FAC

January 11. 2000 Data raceived

> 72-00761-1 Analysis report no.

PARAMETER	METHOD	RESULTS	units
Solids CLF	SOW390, PART-F,D-98	99.73	2
Cation Exchange Capacity (CEC) USE	A Na. 60 (19)	11.6	meg/100g
Exchangeable Sodium Percent (ESP) USI	A No. 60 (10E)(calc)	1.82	ৼ
	12-TKN by Block gester	0.22	**
Total Organic EPP	3.2.14	99.3	ş

Respectfully submitted, COMMERCIAL TESTING 3 ENGINEERING CC.

Conver Laboratory

CVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

Lab 80.

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mabos/cm 8 257C

ation

Calcium m=q/1

Hagn-sium meq/1

andium mag/1

Sand

511t

Clay

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28.2

March 8, 2000

SINCE 1508

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SUNNYSTEE COGEMERATION

: SEOID FINE #2 CE

Location

Surface Rlevation : Erabiug : Herthing :

Particle Size

Mathod Raf.: Myroning D.B.Q., Land Quality Division Guideline No. 1, Erpsoil And Overburden Rules Update/8-94

Spoil Material, University of Nyoming, College Of Agriculture, Bulletin MP-82, Mexch 1994. Standard Operating Erocedures For The Sampling And Analysis Of Selective in Soil And Overburden/

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Deriver Laborator



F-467 Original Welermarked For Your Protection OVER 40 BRANCH LADDRATORIED STRATEGICALLY LOCATED IN PRINCIPAL COME, MINING PAEAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

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MINITURE ON BEACHER

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Organic Matter &

Carbonates

Fragmants

Total

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FAX: (303) 373-4791

SUNNYSIDE COGENERATION

: SPOIL FIRS #2 CB Northing :

Rasting :

Surface Rlevation :

Valo-BY

Solenium

Selenium E.G.3 E Fern

0.02

0.04

8.64

99.3

Method Ref.: Mycming D.E.Q., Land Quality Division Guidaline Bo. 1, Topsoil And Overburden Rules Update/8-94

Spoil Material, University of Nyoming, College of Agriculture, Bulletin MR-82, March 1994. Standard Operating Procedures for the Sampling And Analysis Of Selenium In Soil And Overburden/

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HEYTIGHS ON REVENSE

Kathod Eaf.: Myoming D.E.G., Land Quality Division Guidaline No. 1, Topsoll And Overburden Rules Update/8-94

Spoil Material; University of Nyoming, College OB-Agriculture, Bulletin HT-82, Karch-1994... Standard Operating Procedures For The Sampling And Analysis Of Salenium In Soil And Overburden/ Lah Bo.

Carbon & Organic Total

t/loagt

E/1000E

Pot. Herut.

Sulfur Total

ri U Ą

H-31

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1.13

BE. 4

51.0

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FAX: (3000) 373 4731

SUNNYSIDE COGENERATION

t SECHL PILS #2 CR : Enidazel

Location

Surface Elevation :

Kamting :

Saltur BAR+OER Eyx (Org

Pyrtorg

E/1000E

Motes

t/1000t

t/loggt

ABE.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210:0, LOMBARD, ILLINOIS 00148 • 1EL: 708-953-9300 FAX: 708-953 9330 COMMERCIAL TESTING & ENGINEERING CO.

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**JUTHORS ON REVERSE** 

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Depths

Arsenic Edd

> Bitrogen Nitrate-

Borun mdd

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1,53

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Narch 9, 2000

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SUNNYSIDE COGENERATION

: SPOIL PILE #2 C3 Nutthing:

Legation

Surface Rievation : Kasting :

Holyb declum

Selegion Salanium VALU-EV

1.33

0.02

0.01

Kathod Bef. : Nyming D.E.G., Land Quality Division Guideline No. 1. Topsoil And Cresburden Zules Update/8-94

Standard Operating Fromedures for The Sampling And Analysis Of Selenium In Soil And Overhurden/ Spoil Material, University Of Myoming, College Of Agriculture, Bulletin MP-82, March 1998.

Respectfully submitted.
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SUNNYSIDE OPERATIONS P.O. BC ( 159 #1 POWER PLANT ROAD SUNNYSIDE UT 84539

March 8 2000

Sample identification by SUNNYSIDE COGENERATION FAC

SAMPLE ID: SPOIL PILE #2 CENTER SOUTH

Kind of sample SOIL

Sample taken by SUNNYSIDE COGENERATION FAC

Date received January 11, 2000

Analysis report no.

PARAMETER	<u>METHCD</u>	RESULTS	<u>units</u>
	CLPSOW390, PART-F,D-96	99.67	3,
Cation Exchange Capacity (CEC)	USDA No. 60 (19)	10.6	meq/100g
xchangeable Sodit Percent (ESP)	USDA No. 60 (108) (calc)	1.65	*
litrogen, total Kjeldahl	M3512,TKN by Block Digester	0.24	* * !
Total Organic Carbon	EPA 3.2.14	99.1	dy

Respectfully autimitted. COMMERCIAL TESTING & ENGINEERING CO.

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TERMS AND CONDITIONS ON REVERSE

Kathod Ref.: Mycming D.E.Q., Land Quality Division Guidsline No. 1, Topmoil And Overburden Rules Update/8-98

Spoil Material, University of Myoming, College Of Agriculture Pennishia Kataly Mirch 1994. Standard Operating Procedures For The Sampling And Analysis Of Selenium in Soil And Overhunden/ Lab So.

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ENGINEERING CO.

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SURNYSIDE COGENERATION

: SPOIL PILR %2 CR Rorthiug :

Surface Rlevation :

Rasting :

Sodium

m-1/1 RVB 5 and Particle Size 5116 CIay

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OVEH 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL NIRRIG AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

DENVER CENSION

Respecifully submitted.
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V Contain

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INTIONS ON REVENSE

Lab Bo.

Depthe

Hatter & organic Total

Carbonatas

Eragman to Coatra

7.58

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March 6, 2000

SINCE 1905

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FAX: (303) 373 4781

ROMMARTINE COGRAFIGMENT TOTAL

Location

Surface Kleration :

Racting :

Selpaium AR-UIFA

Selenium ppm

HAD CAR

0.05 0.06

Kathed Fafit Nyeming D.E.Q., Land Quality Pirisien Guidalins No. 1, Topsoil And Overburdon Rules Opdate/8-94

Standard Operating Procedures for The Sampling And Analysis Of Salanium In Soil And Overburden

Spoil Material, University of Nyoming, College of Agriculture, Mulletin HEREN MARCH 1998;

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COMMERCIAL TESTING & ENGINEERING CO.

Lab Ko.

Bapthe

Carbon & organic Total

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F/Iddac

Salfur Total

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FAX: (393) 373-4741

SUNNISIDE COGENERATION

t SPOIL FILE #2 CK

Surface Blevation :

Location

Porthing:

Roaking :

Fot.

F/IDDDE F/IDDDE Hout. ARP. Sulfur

brotaka Fyz+0rg

E/Indac

Fyr+0rg

-E/1000E

75. A 57.9

0.57

17.8

Denver Laboratory

TRESPONDITY SUBTRIBED.
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Mathod Ref.: Myoming D.E.G., Land Quality Division Guideline Ro. 1, Topmoil And Overburden Bules Update/8-94

Spoil Material, University of Myoning, Collega-serguestastics, Bullistin HETTH, Warch 1994. Standard Operating Procedures For The Sumpling And Analysis Of Selenium In Soil And Overburdes/



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March E, 2000

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SUNDARIDE COGERERATION

; 9101h FIR #8 CR Rording : Banting :

Location

Surface Eleration :

Mart and trin 19 - 1 - 11 il 12mg Value by

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Kathod Bef.: Mycoring D.E.Q., Land Quality Division Guideline No. 1, Improil And Orerhunden Pulsa Update/8-94

Spoil Material, University of Hyening, College of Agriculture, Bulletin HP-81, Match 1994. Standard Operating Procedures For The Sampling-And Analysis Of Salentum, In Soil And Overburden/

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